

MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
AIR QUALITY TECHNICAL ADVISORY COMMITTEE MEETING

Thursday, October 25, 2012
MAG Office
Phoenix, Arizona

MEMBERS ATTENDING

Oddvar Tveit, Tempe, Chairman
Elizabeth Biggins-Ramer, Buckeye, Vice Chair
* Kristen Sexton, Avondale
Jim Weiss, Chandler
Jamie McCullough, El Mirage
Jessica Koberna, Gilbert
Doug Kukino, Glendale
* Cato Esquivel, Goodyear
Greg Edwards for Scott Bouchie, Mesa
William Mattingly, Peoria
Philip McNeely, Phoenix
Sam Brown for Tim Conner, Scottsdale
Margaret Perez for Antonio DeLaCruz, Surprise
Mark Hannah, Youngtown
Ramona Simpson, Queen Creek
* American Lung Association of Arizona
Kristin Watt, Salt River Project
Rebecca Hudson, Southwest Gas Corporation
* Mark Hajduk, Arizona Public Service Company
Gina Grey, Western States Petroleum Association
Robert Forrest, Valley Metro/RPTA
* Dave Berry, Arizona Motor Transport Association
Jeannette Fish, Maricopa County Farm Bureau

Steve Trussell, Arizona Rock Products Association
Amy Bratt, Greater Phoenix Chamber of
Commerce
Amanda McGennis, Associated General
Contractors
* Spencer Kamps, Homebuilders Association of
Central Arizona
* Mannie Carpenter, Valley Forward
* Kai Umeda, University of Arizona Cooperative
Extension
Beverly Chenausky, Arizona Department of
Transportation
Diane Arnst, Arizona Department of
Environmental Quality
* Environmental Protection Agency
Frank Shinzel for Jo Crumbaker, Maricopa County
Air Quality Department
* Michelle Wilson, Arizona Department of Weights
and Measures
* Ed Stillings, Federal Highway Administration
Mary Springer for Judi Nelson, Arizona State
University
* Christopher Horan, Salt River Pima-Maricopa
Indian Community

*Members neither present nor represented by proxy.
#Participated via telephone conference call.
+Participated via video conference call.

OTHERS PRESENT

Lindy Bauer, Maricopa Association of Governments
Dean Giles, Maricopa Association of Governments
Taejoo Shin, Maricopa Association of Governments
Matt Poppen, Maricopa Association of Governments
Julie Hoffman, Maricopa Association of Governments
Kara Johnson, Maricopa Association of Governments
Teri Kennedy, Maricopa Association of Governments
Cathy Arthur, Maricopa Association of Governments
Ranjith Dandanayakula, Maricopa Association of
Governments
Randy Sedlacek, Maricopa Association of
Governments
Rubben Lolly, City of Phoenix

Mitch Wagner, Maricopa County Department
of Transportation
Lee Jimenez, Maricopa County Department
of Transportation
Shane Kiesow, City of Apache Junction
Wendy Crites, Salt River Project
David Johnson, Town of Buckeye
Abigail Cooksey-Williams, State of Arizona
Johanna Kuspert, Maricopa County Air Quality
Department
Matt Tsark, Strand Associates Inc.
Mike Sabatini, Baker

1. Call to Order

A meeting of the Maricopa Association of Governments (MAG) Air Quality Technical Advisory Committee (AQTAC) was conducted on October 25, 2012. Oddvar Tveit, City of Tempe, Chair, called the meeting to order at approximately 1:30 p.m. Jim Weiss, City of Chandler; Jamie McCullough, City of El Mirage; Greg Edwards, City of Mesa; Wendy Crites, Salt River Project; Mark Hannah, Town of Youngtown; Gina Grey, Western States Petroleum Association; Elizabeth Biggins-Ramer, Town of Buckeye; and Margaret Perez, City of Surprise, attended the meeting via telephone conference call.

2. Call to the Audience

Mr. Tveit stated that according to the MAG public comment process, members of the audience who wish to speak are requested to fill out comment cards, which are available on the tables adjacent to the doorways inside the meeting room. Citizens are asked not to exceed a three minute time period for their comments. Public comment is provided at the beginning of the meeting for nonagenda items and nonaction agenda items. Mr. Tveit noted that no public comment cards had been received.

3. Approval of the July 26, 2012 Meeting Minutes

The Committee reviewed the minutes from the July 26, 2012 meeting. William Mattingly, City of Peoria, moved and Doug Kukino, City of Glendale, seconded, and the motion to approve the July 26, 2012 meeting minutes carried unanimously.

4. Evaluation of Proposed FY 2015, 2016, and 2017 CMAQ Projects for the FY 2014-2018 MAG TIP

Dean Giles, Maricopa Association of Governments, presented the evaluation of proposed FY 2015, 2016, and 2017 Congestion Mitigation and Air Quality Improvement (CMAQ) Projects for the FY 2014-2018 MAG Transportation Improvement Program (TIP). He stated that on August 6, 2012, MAG issued a call for projects for Intelligent Transportation Systems (ITS) projects, Bicycle and Pedestrian Projects, and PM-10 Paving Unpaved Road Projects for fiscal year (FY) 2015, 2016, and 2017. MAG also issued a call for PM-10 Certified Street Sweeper Projects for FY 2013. Mr. Giles indicated that approximately 85 projects were submitted. MAG has conducted an evaluation of those projects since the September 19, 2012 due date. He noted a lot of work has gone into evaluating the projects in the short three week time period. Mr. Giles added that projects frequently require follow up with the member agencies to confirm data that is used to evaluate the projects. The MAG Intelligent Transportation Systems Committee, the MAG Bicycle and Pedestrian Committee, and the MAG Street Committee have worked hard to provide technical reviews of the applications.

For this agenda item, only the ITS, bicycle and pedestrian, and air quality projects are covered. The PM-10 Paving Unpaved Road Projects and FY 2013 Street Sweeper Projects are covered in separate agenda items.

Mr. Giles discussed Attachment A included in the packet. He indicated that Attachment A provides the project evaluations sorted by cost-effectiveness. The projects evaluated for FY 2015 are included in tables one through three. The FY 2016 projects are found in tables four through six. The FY 2017 projects are in tables seven through nine. Mr. Giles stated that the air quality projects have lump sums listed for the purchase of street sweepers in FY 2015, 2016, and 2017. The other air quality projects include the Trip Reduction Program, the Regional Rideshare and Telework Program, and the Travel

Reduction Program. He commented that MAG utilized the latest version of MOVES2010b and AP-42 for calculating the emission reductions in kilograms per day for total organic gases, nitrogen oxides (NOx), and PM-10. In addition, MAG used weighting and seasonal factors. Mr. Giles stated that a priority weight of one has been applied to total organic gases, NOx, and PM-10. However, PM-10 projects located within four miles of a PM-10 monitor received a priority weight of two. Mr. Giles mentioned that a seasonal factor of two has been applied to total organic gases and NOx emission reductions to account for the six month ozone season. No seasonal factor has been applied for PM-10. Mr. Giles indicated the right hand column of the tables display cost effectiveness which is calculated by dividing the annualized CMAQ cost by the annual emission reductions.

Mr. Giles provided the schedule. He stated that approximately 85 CMAQ projects for FY 2015, 2016, and 2017 were received. In October, the MAG ITS Committee, the MAG Bicycle and Pedestrian Committee, and the MAG Street Committee began reviewing the technical factors of the project applications. Mr. Giles indicated that the MAG Air Quality Technical Advisory Committee is requested to forward the CMAQ evaluation to the Transportation Review Committee and modal committees for their use in evaluating projects. He noted that in November, MAG staff will be providing technical assistance and general awareness training of the CMAQ evaluation process to the MAG Intelligent Transportation System Committee and the MAG Bicycle and Pedestrian Committee. In December, the MAG Intelligent Transportation System Committee and the MAG Bicycle and Pedestrian Committee will be requested to forward their ranking of the CMAQ projects to the MAG Transportation Review Committee. He discussed that the MAG Transportation Review Committee will then recommend funding for projects for the draft FY 2014-2018 TIP.

Mr. Giles stated that the Committee is requested to forward the evaluation of proposed FY 2015, 2016, and 2017 CMAQ projects for the FY 2014-2018 MAG Transportation Improvement Program to the MAG Transportation Review Committee and modal committees for use in prioritizing projects. The Committee is also requested to rank the Air Quality Projects in tables one, four, and seven to be forwarded to the MAG Transportation Review Committee.

Mr. Tveit commented that there is enough funding to potentially fund every project on the list. Mr. Giles responded that the technical committees will be forwarding a ranked list to the MAG Transportation Review Committee along with the CMAQ funding available for projects by fiscal year.

Jeannette Fish, Maricopa County Farm Bureau, inquired about the location of project Phoenix#2 on table two. Phil McNeely, City of Phoenix, replied that 32nd Street intersects State Route 51 south of Shea Boulevard and then runs parallel until Reach 11.

Steve Trussell, Arizona Rock Products Association, asked how the School Resource Officer Training Program on table two relates to the marked footnote number four. Mr. Giles responded that this project will provide bicycle safety and education to schools.

Amanda McGennis, Associated General Contractors, commented that she has witnessed street sweeper operators stirring up dust because water tanks were not refilled. She indicated that the message of efficiently sweeping the streets with filled water tanks needs to be communicated to organizations with street sweepers to avoid stirring up dust. Ms. McGennis stated that she has alerted the City of Phoenix, in which the City communicated this message to their street sweeper operators. She expressed concern with the issue and indicated that the importance of proper operation of the PM-10 certified street sweepers needs to be communicated. Mr. Tveit thanked Ms. McGennis for her comment. He inquired

if Maricopa County could review training for water truck drivers in response to Ms. McGennis's comment. Frank Shinzel, Maricopa County Air Quality Department, responded yes.

Lindy Bauer, Maricopa Association of Governments, thanked Ms. McGennis for her comments. She stated that MAG was not aware of that situation and will communicate this message to others.

Mr. Trussell inquired how the City of Mesa project on table six relates to air quality. Mr. Giles replied that the Mesa 9-1-1 Call Center Computer Aided Dispatch project works in tandem with their existing ITS communication system that is eligible for CMAQ funding.

Ms. McGennis asked if the Scottsdale Highway Advisory Radio project on table three will be broadcasting air quality information as well. She stated that air quality information ought to be broadcasted, in addition to the travel and safety information. Ms. McGennis added that it should be written into the intergovernmental agreements if not done so already.

Beverly Chenausky, Arizona Department of Transportation, commented that perhaps the tables could flag projects that are eligible for other CMAQ purposes, such as safety, to alleviate confusion. She indicated that projects eligible for CMAQ funding may not necessarily have direct air quality benefit. Ms. Chenausky gave the example of safety projects. Ms. McGennis commented on finding a way to include an air quality element into proposed projects if it would lead to direct air quality benefit. Ms. Chenausky responded that it would depend on the applicant's proposal to include that information. Ms. McGennis asked that potential air quality benefits be communicated to the applicants to include in their proposal.

Ms. Chenausky asked if MAG is updating processes to accommodate the new eligibilities under MAP-21. She gave the example that alternative fuel was not usually included in the CMAQ methodology. Mr. Giles responded that many of the items bulleted under 18 in Attachment C were previously eligible for CMAQ funds under the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU). He indicated that the Federal Highway Administration guidance issued after the approval of MAP-21 reiterated some of the eligible activities and included some minor changes. Ms. Chenausky asked if the analysis needed to be modified to accommodate the changes. Mr. Giles replied that most project types are covered, however, he stated that MAG staff will look into that again.

Mr. Tveit requested a motion to forward the evaluation of proposed FY 2015, 2016, and 2017 CMAQ projects for the FY 2014-2018 MAG Transportation Improvement Program to the MAG Transportation Review Committee. Mr. Kukino moved and Ms. McGennis seconded, and the motion carried unanimously.

Mr. Mattingly asked about the second requested action. He inquired if the staff recommendation is to rank the projects as listed in the agenda packet. Mr. Giles stated that the projects can be ranked however the Committee decides.

Mr. Tveit called for a vote on the motion to rank the Air Quality Projects in tables one, four, and seven to be forwarded to the MAG Transportation Committee. Mr. Kukino moved and Mr. Mattingly seconded, and the motion to rank the Air Quality Projects carried unanimously.

5. Evaluation of Proposed PM-10 Certified Street Sweeper Projects for FY 2013 CMAQ Funding

Mr. Giles discussed the evaluation of proposed PM-10 Certified Street Sweeper Projects for FY 2013 CMAQ funding. The six street sweeper applications that were evaluated requested \$1.2 million in

CMAQ funds. The FY 2013 Unified Planning Work Program and Annual Budget and FY 2011-2015 MAG Transportation Improvement Program contain \$900,000 in FY 2013 CMAQ funding. Mr. Giles indicated that an additional \$346,973 in CMAQ funding is available from sweeper projects that have been requested to be deleted and from savings on sweepers that have cost less than anticipated. He added that as a result there is funding for all six sweeper projects. A minimum local cash match of 5.7 percent is required for these projects.

Mr. Giles reviewed the street sweeper projects. He noted that these applications were received by the September 19, 2012 deadline. The MAG Street Committee conducted a technical review of the projects at their October 17, 2012 meeting. Mr. Giles indicated that comments from the Street Committee were provided in the agenda packet. He noted that the projects are ranked in terms of cost-effectiveness with the emission reductions of PM-10 specified in kilograms per day for each project. Ms. Giles stated that if recommended by the Committee today, the item would be considered by the MAG Management Committee on November 7, 2012 and then by the MAG Regional Council on December 5, 2012.

Mr. Giles stated that the Committee is requested to recommend a prioritized list of proposed PM-10 Certified Street Sweeper Projects for FY 2013 CMAQ funding.

Ms. McGennis requested that the jurisdictions requesting projects inform street sweeper operators to keep the water tanks filled while servicing the area.

Mr. Tveit requested a motion to recommend a prioritized list of proposed PM-10 Certified Street Sweeper Projects for FY 2013 CMAQ Funding to the MAG Management Committee. Mr. McNeely moved and Mr. Kukino seconded, and the motion to recommend a prioritized list of proposed PM-10 Certified Street Sweeper Projects for FY 2013 CMAQ Funding carried unanimously.

6. Evaluation of Proposed PM-10 Paving Unpaved Road Projects for FY 2015, 2016, and 2017 CMAQ Funding

Mr. Giles reviewed the evaluation of proposed PM-10 Paving Unpaved Road Projects for FY 2015, 2016, and 2017 CMAQ funding. Mr. Giles stated that MAG has evaluated all 12 projects that were received. He noted that approximately \$14.1 million in CMAQ funding was requested for the three years of projects. The estimated CMAQ funding available for all three years is \$17.2 million. The funding remaining after funding the projects does not present an issue since MAP-21 funding levels used to project funding available for 2015, 2016, and 2017 are still unknown.

Mr. Giles discussed the paving unpaved road projects. The MAG Street Committee conducted a technical review of the projects at their October 17, 2012 meeting. Mr. Giles indicated that comments from the Street Committee were provided in the agenda packet. He stated that MAG has used the CMAQ methodology to evaluate the proposed projects for the estimated emission reductions and corresponding cost-effectiveness. Attachment A provides a ranking by cost-effectiveness and Attachment B provides a ranking by PM-10 emission reductions. The Committee is requested to recommend a ranked list of proposed PM-10 Paving Unpaved Road Projects for FY 2015, 2016, and 2017 CMAQ funding to forward to the MAG Transportation Review Committee for inclusion in the FY 2014-2018 MAG Transportation Improvement Program.

Mr. Tveit inquired if the Committee is to recommend one or both attachment tables. Mr. Giles replied in the past both tables have been provided to the Committee for consideration; the Committee has also forwarded the ranked projects based on either cost-effectiveness or emission reductions.

Diane Arnst, Arizona Department of Environmental Quality (ADEQ), commented that the Off-Highway Vehicle Dust Task Force met last week. She noted that the Sheriff's Office and other agencies commented on the City of Surprise location included as a FY 2016 PM-10 Paving Unpaved Road Project. Ms. Arnst inquired if there are any current actions being taken to control dust emissions in the area, Jomax Road from 147th Avenue to East City (133rd Avenue), given that the paving project is not until 2016. Many complaints have been issued about dust in this area. Ms. Arnst indicated that it was not an official dirt road, but now has become a popular shortcut. She noted that she is unaware if the location is under the City of Surprise jurisdiction or another entity, like a private development. Ms. Arnst asked about dust suppression for the interim years until it is paved. Margaret Perez, City of Surprise, responded that she will forward the question to Committee member Tony DeLaCruz who can answer the question.

Ms. Arnst stated that ADEQ is in favor of using CMAQ funds on paving unpaved road projects because it is the most effective use of CMAQ dollars.

Ms. Fish responded with agreement on Ms. Arnst's comment. She noted that the cost-effectiveness for PM-10 paving unpaved road projects is higher than bicycle and pedestrian projects. She noted that the dollar cost per metric ton is lower.

Mr. Tveit called for a vote on the motion to recommend a ranked list of proposed PM-10 Paving Unpaved Road Projects for FY 2015, 2016, and 2017 to be forwarded to the MAG Transportation Committee. Mr. Kukino moved and Mr. Mattingly seconded, and the motion carried unanimously.

7. Update on PM-10 Exceedances and Exceptional Events

Ms. Bauer provided an update on PM-10 exceedances and exceptional events. She stated that there have been 13 days of PM-10 exceedances in 2012. Ms. Bauer indicated that most of the exceedances appear to be exceptional events. She discussed that three years of clean data is required at the monitors to attain the standard. Ms. Bauer mentioned that there were no violating monitors in 2010. She indicated that there were several exceptional events in 2011. Ms. Bauer added that there are 16 days of exceptional events where documentation still needs to be prepared. In 2012, there are 10 days of exceptional events to document. The Arizona Department of Environmental Quality has allocated \$500,000 for consultant assistance in compiling the exceptional event documentation. Ms. Bauer stated that MAG staff is also preparing some of the exceptional event documentation and will continue to provide support to ADEQ. She added that Maricopa County is assisting as well. She noted the tremendous workload. Ms. Bauer stated that the 200-page exceptional events documentation package for events dating July 2, 2011 to July 8, 2011 has been approved by the Environmental Protection Agency (EPA), however, documentation for 26 additional exceptional event days is required. She added that ADEQ efforts to expedite the documentation is appreciated. The documentation for these days needs to be submitted to EPA in time for them to review and concur with the exceptional event days prior to EPA approval action of the MAG 2012 Five Percent Plan for PM-10. EPA is scheduled to take action on the plan by February 14, 2013. Ms. Bauer encouraged the Committee members to help the region stay clean at the monitors and keep the dust down. She stated that the region is in a critical time period due to EPA action on the plan expected in February. If the plan is not approved EPA would be required to implement a Federal Implementation Plan. Ms. Bauer thanked the Committee.

Ms. Tveit commented that it is encouraging that EPA has approved the exceptional events documentation for events dating July 2, 2011 to July 8, 2011.

8. Status Report on Eight Hour Ozone Monitoring Data

Julie Hoffman, Maricopa Association of Governments, presented a status report on the eight-hour ozone monitoring data. She indicated that three tables of ozone monitoring data were provided at each place. She noted that the ozone exceedances in 2012 have been provided by date and by monitor. Ms. Hoffman stated that in 2012 the region has experienced 28 days where at least one monitor exceeded the 2008 eight-hour ozone standard of 0.075 parts per million (ppm). The Committee was also provided a table that included the three year average of the annual fourth high, which is how the standard is calculated. Ms. Hoffman noted that three year averages of the fourth high exceeding 0.075 ppm are shown in bold since these are violating monitors. She added that there are nine violating monitors in 2012. The North Phoenix monitor has the highest three year average with a value of 0.081 ppm. Ms. Hoffman mentioned that the North Phoenix monitor has been the only violating monitor for the last three years. The value for the highest three year average has increased from 0.077 ppm for the past two years to 0.081 ppm for 2012.

Ms. Hoffman discussed the attainment date for the eight-hour ozone standard. She indicated that the Maricopa ozone nonattainment area is currently classified as a Marginal Area for the 0.075 ppm eight-hour ozone standard established by EPA in 2008. Therefore, the region has a December 31, 2015 attainment date. Ms. Hoffman explained that attainment for the region will be determined using years 2013, 2014, and 2015.

Ms. McGennis inquired about the location of the North Phoenix monitor. Ms. Hoffman responded that it is located at approximately Butler Drive and 7th Street near North Mountain. Cathy Arthur, Maricopa Association of Governments, replied that it is on the south side of North Mountain.

Ms. Bauer commented that MAG will be looking into why the ozone concentrations at the monitors have increased in 2012. She stated that vehicle miles of travel have been down since 2008 and the fuel usage is flat. Ms. Bauer indicated that MAG will explore ideas to determine why nine monitors are now violating the eight-hour ozone standard. She gave the example that the region is sensitive to reductions in NO_x in the centralized area that can cause ozone to increase. The reduction in vehicle miles traveled leads to a reduction in NO_x, which could lead to the increase in ozone production. Ms. Bauer also commented that the increase to year-round fuel with 10 percent ethanol blends could be impacting the ozone levels. She stated that according to the Arizona Department of Weights and Measures, a 10 percent ethanol blend is now being used in the summer, not just in the winter as it was previously. The Reid Vapor Pressure has been checked and it appears to be in compliance with the State requirement of seven or under. However, Ms. Bauer stated that constituents associated with ethanol, like aldehydes, are very reactive in ozone formation. Ozone transport will also be evaluated. She mentioned that it is still unclear what may have caused the increase in ozone this year. These are just some of the ideas to be reviewed regarding the increase.

9. Call for Future Agenda Items

Mr. Tveit requested suggestions for future agenda items. He indicated that the next meeting of the Committee has been tentatively scheduled for Tuesday, November 27, 2012.

Mr. Trussell inquired if information has been received from EPA with regard to the comments submitted on the Revised Draft EPA Exceptional Events Guidance. Ms. Bauer replied that no response from EPA has been received on the Revised Draft EPA Exceptional Events Guidance comments. However, she stated that positive assistance has been provided by EPA to MAG, ADEQ, and Maricopa County on exceptional events.

With no further comments, the meeting was adjourned at 2:25 p.m.